

Product datasheet for RC216775

MAP2 (NM_002374) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MAP2 (NM_002374) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MAP2
Synonyms:	MAP-2; MAP2A; MAP2B; MAP2C
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC216775 representing NM_002374 Red=Cloning site Blue=ORF Green=Tags(s)

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Protein Sequence:

>RC216775 representing NM_002374
 Red=Cloning site Green=Tags(s)

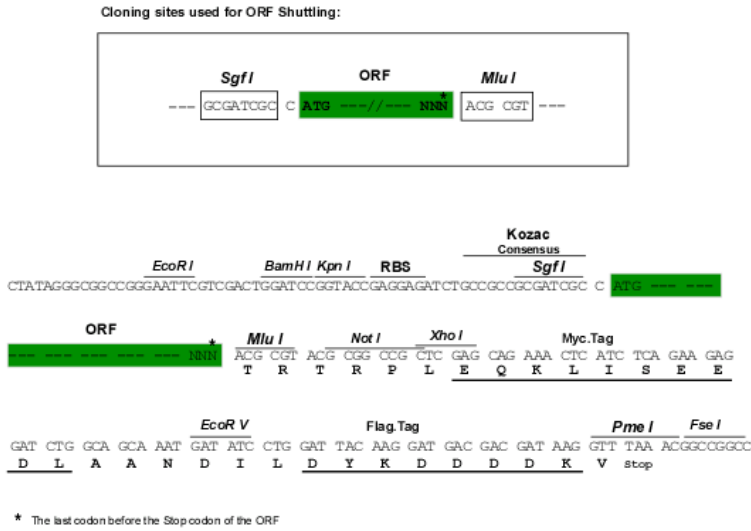
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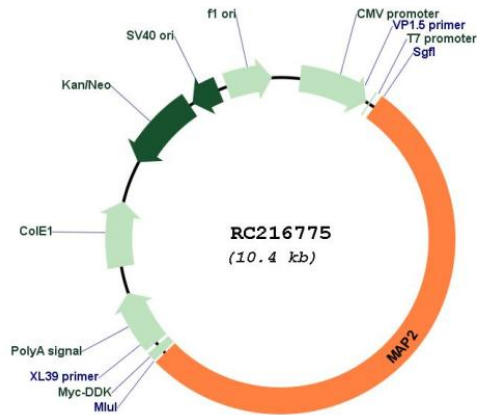
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:

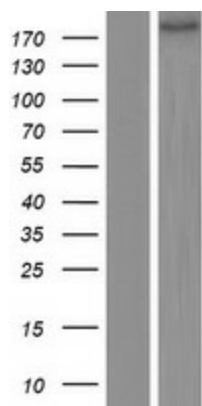


ACCN: NM_002374

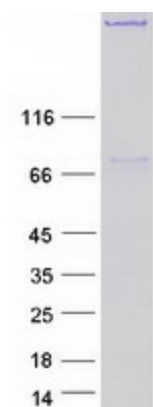
ORF Size: 5481 bp

OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
RefSeq:	NM_002374.2 , NP_002365.2
RefSeq Size:	6534 bp
RefSeq ORF:	5484 bp
Locus ID:	4133
Domains:	tubulin-binding
Protein Families:	Adult stem cells, Druggable Genome, ES Cell Differentiation/IPS
MW:	199.3 kDa
Gene Summary:	This gene encodes a protein that belongs to the microtubule-associated protein family. The proteins of this family are thought to be involved in microtubule assembly, which is an essential step in neurogenesis. The products of similar genes in rat and mouse are neuron-specific cytoskeletal proteins that are enriched in dendrites, implicating a role in determining and stabilizing dendritic shape during neuron development. A number of alternatively spliced variants encoding distinct isoforms have been described. [provided by RefSeq, Jan 2010]

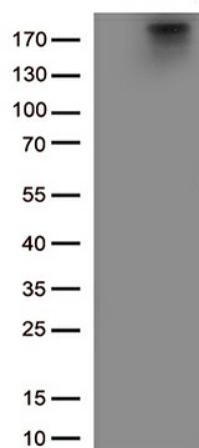
Product images:



Western blot validation of overexpression lysate (Cat# [LY419369]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC216775 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified MAP2 protein (Cat# [TP316775]). The protein was produced from HEK293T cells transfected with MAP2 cDNA clone (Cat# RC216775) using MegaTran 2.0 (Cat# [TT210002]).



HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY MAP2 (RC216775, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-MAP2.(1:1000)